

# Time Management Reporting and Business Intelligence (BI) Workshop

Sammie Chumley

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#### **SCEIS Mission**

The South Carolina Enterprise Information System will standardize and streamline business processes
within the government of South Carolina, using best business practices to achieve cost-effective and efficient delivery of services.

Timely, accurate and complete information provided through SCEIS will empower decision-makers to *improve the way government works* for the citizens of South Carolina.



# **HR/Payroll Team Vision**

"Connecting State Government's people and information through a statewide human resources/payroll system that is accurate, responsive and customer focused."





## **Workshop Agenda**

#### **Introductions and Project Overview**

- Introductions
- Compare the local control of the local control o
- @ HR/Payroll Project Overview

#### **SAP Overview**

- What is SAP?
- Terms, Definitions and Concepts
- Mow will SCEIS use SAP?

#### **Objectives, Roles and Guidelines**

#### **SAP Business Intelligence Overview**

- What is Business Intelligence
- Bl Capabilities





# Workshop Agenda, Continued

#### **Identifying Reporting Needs**

- Requirements Gathering
- Blueprint Process
- @ Analysis
- Solution
- @ Agency Local Systems

#### **Time Management Standard Delivered Reports**

- Leave Balance report
- Time Sheet Attendance/Absence report
- Time Wage report
- Time cluster report
- Work Schedule report

#### Wrap Up

Next Steps





# **Introductions and Logistics**



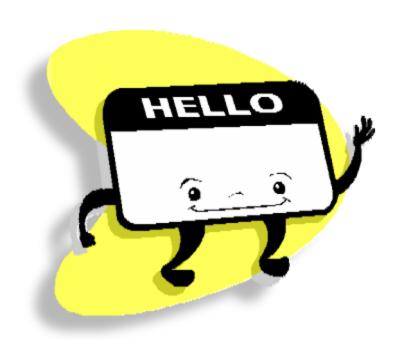


#### Who we are

- Sammie Chumley
- Kumar Kittuswamy

#### Who are you?

- Name
- Agency
- Role with the State





# **Workshop Logistics**



- Sign-In Sheet
- Tent Cards
- Rest Rooms
- @ Breaks
- Parking Lots
- @ Ground Rules



### **Workshop Guidelines**

Respect time

Think outside of the box

- Respect process
  - Stick to agenda topics
  - One subject discussed at a time
- Respect one another
  - One conversation at a time
  - Cell phones and pagers turned off
  - Compare the com

- Keep the end in sight
- Work on common terminology for understanding
- Silence means agreement
- Issues will be parked and resolved outside the meeting





# **HR/Payroll Project Overview**



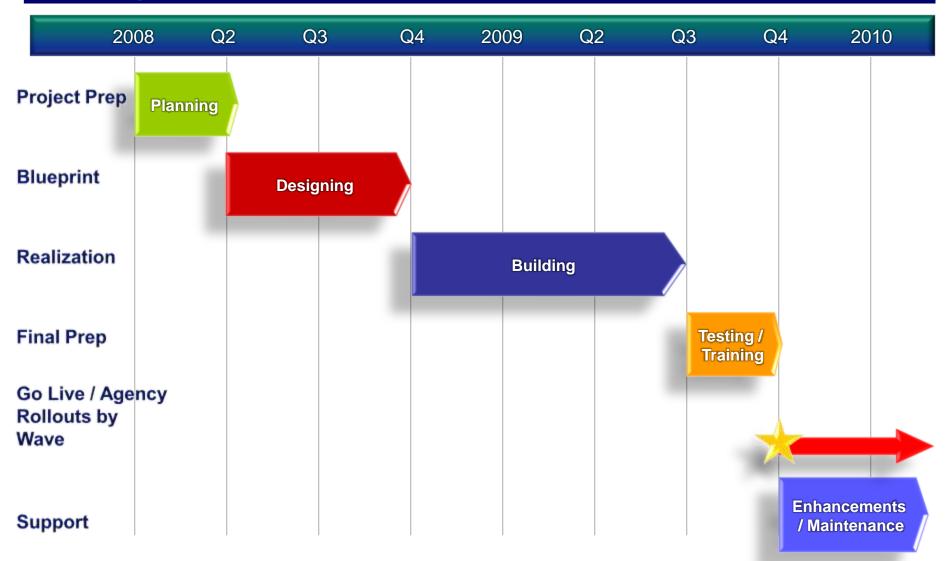
# What Is This Project About?

#### Replacing 2 Systems...



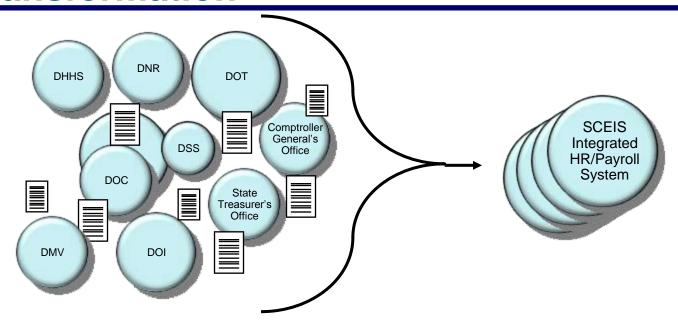


# **HR/Payroll Timeline**





#### **HR Transformation**



- Poor access to information
- Multiple forms and systems
- Lack of consistent Policies and Procedures
- Fragmented processes
- Many process participants
- Ouplicate Information
- Data integrity and recoverability problems
- No transaction monitoring
- Overly complex service delivery

- Operation of the property o
- Defined roles and responsibilities
- Single database for access to information
- Integrated systems
- Operation
  Ope
- Coordinated and more efficient processes
- Easy data maintenance
- Control of operations and data
- Able to monitor transaction status
- Foundation for future service delivery improvements

# Organizational Risk Assessment Questions



- What are the key factors that will make the SCEIS HR/Payroll Project a Success?
- What do you see as the biggest potential risks to the SCEIS HR/Payroll Project?
- What are some of the important lessons learned from past business transformation efforts?
- @ Are there other initiatives that may impact the SCEIS HR/Payroll Project?
- What is the most effective way to communicate about the SCEIS HR/Payroll Project? How Often?



#### **SAP Overview**



#### What is SAP?

- SAP is the world's leading provider of business software, offering applications and services that enable companies of all sizes and in more than 25 industries to become best-run businesses.
  - SAP was founded in 1972 by five former IBM employees.
  - SAP stands for Systems, Applications and Products for Data Processing.
  - SAP has over 47,800 customers in 120 countries.
  - SAP software is an enterprise resource planning (ERP) system.
- An ERP system is an information system that integrates departments and functions across a business into one computer system.



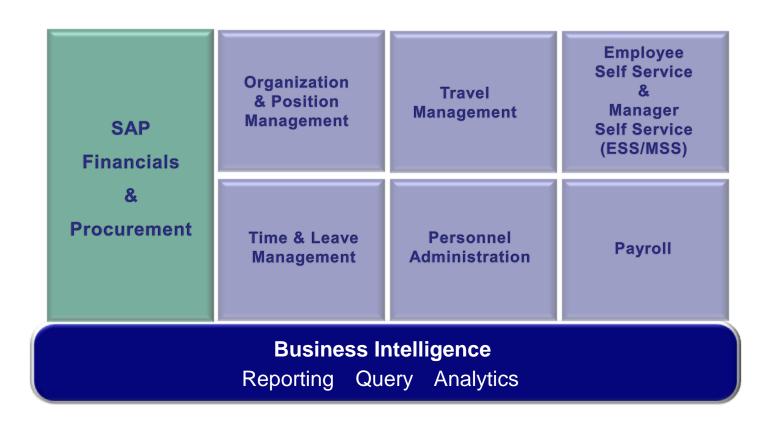
# **SAP Concepts**

- SAP software provides modules to support multiple business functions
- When the description of the control of the contr
  - Personnel Administration
  - Organization Management
  - Compensation Management
  - Payroll
  - Time Management





# We Are Implementing...



...a Strong Foundation



# **Blueprint Workshop Objectives**



# **Objectives of Workshop**

#### **Overall Objective:**

Oldentify Reporting and Analysis Requirements for Time Management

#### **Additional Objectives:**

- Gain a baseline understanding of Current Reporting Systems for HR
- Introduce Best Practices and relevant SAP concepts
- Introduce SAP Business Intelligence
- Identify and Collect current reporting requirements
- Identify future reporting needs





### **Your Role**



#### What is Your Role?

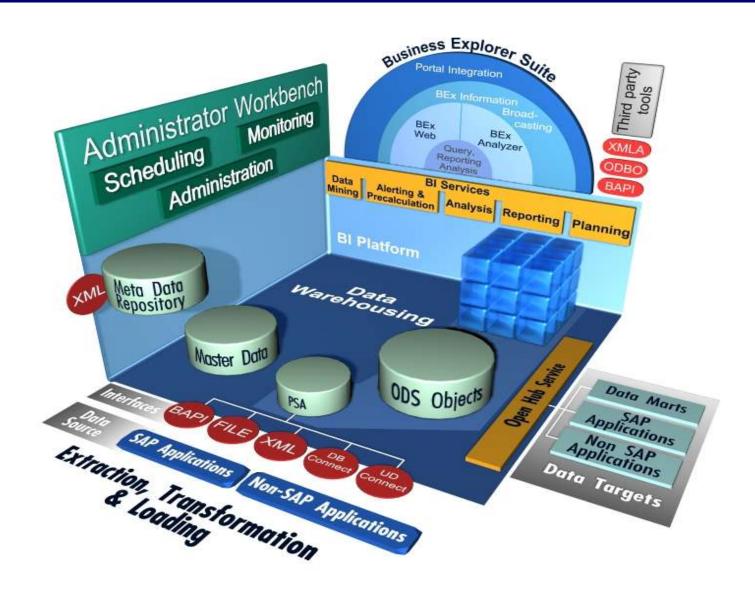
#### **Subject Matter Experts (SME)**

- Are familiar with their reporting needs/ functions
- Can provide us with insights into their agency business environment
- Can ensure that the state's business requirements are appropriately addressed in the new system processes
- Can share insights into the current agency culture
- Can assist with testing the new system configurations



# **SAP Business Intelligence Overview**







# **Business Intelligence Overview**

#### What is Business Intelligence?

SAP BI is a separate Business Intelligence solution feed from the main SAP ECC system.

#### BI Definition - BI describes the enterprise's ability

- To access and explore information (structured data, often contained in a Data Warehouse or DW)
- analyze that information
- @ develop insights and understanding
- which leads to improved and informed decision making

SAP BI gives decision makers a "multi-dimensional" view of the data stored.



## Multi Dimensional Views (Slice & Dice)

# **Compensation Manager Department Manager** Comparison of salary by Job Category over the last 12 Salary by employee over the last 12 months months **Employee Job Category Salary Time**

#### <u>Payroll Manager</u>

Comparison of current year to previous year salary by job category and employee group

#### **Executives**

Top ten job categories with the highest average salary



#### Where and How SAP BI Gets Data?

- The primary source of data for SAP BI is the SAP ECC system.
- The update of data from SAP ECC to SAP BI is not real-time. However, the time interval for update can be set based on the reporting requirement.
- Users cannot directly update data in SAP BI; all updates to SAP BI data must originate in the source system (SAP or non-SAP).



#### **BI** Capabilities

#### Analysis

- Multi dimensional views
- Navigation and interaction (slice and dice, drill down, drill through, pivoting...)
- @ Hierarchy navigation

#### **User Access and Interaction**

- @ Web based access, analyze and share information within a web browser
- Windows Based Analysis in MS Excel

#### Intelligent Services

- @ Alerting Identify and handle exceptions, pro-active notification (portal, e-mail...)
- © Conditions Top 5, bottom 10%, greater than, less than, .....



#### From a User's Perspective

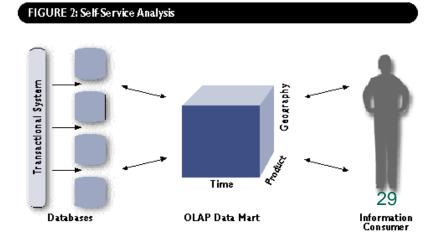
- For the majority of SAP BI reports and for simple analysis, data is presented through a Web Browser.
- For complex analysis, other SAP BI reports are generated using a MS Excel based Analyzer Tool. Standard Excel functions can be used on the report in addition to the SAP BI analysis functionality.
- Output Users can provide report parameters to determine a range of variations to the query at run-time.



#### **Potential Benefits**

- Reduce or even eliminate shadow reporting systems
- One version of the truth
- Analytical capability
- Alerting Pro active notification
- O Dashboard, cockpit capability
- Cross functional reporting integrated reporting for Finance, HR / Payroll
- Capability to combine SAP and non-SAP data
- Move from typical information flow to self service analysis
- @ Easy Access to reports / analysis from every desktop

# Patabases Report Gopher Information Consumer





# **Identifying Reporting Needs**



## **BI** Requirements Gathering

#### **4 Main Processes**

#### 1. Legacy System Review

- Reporting Systems Only
- @ Functionality
- Data Sources

# 2. Functional Team Business Process Workshops

- \* Identify reports to support business process
- @Provide their current critical reports
- Follow up to determine report details

# 3. Reporting Specific Business Process Workshops

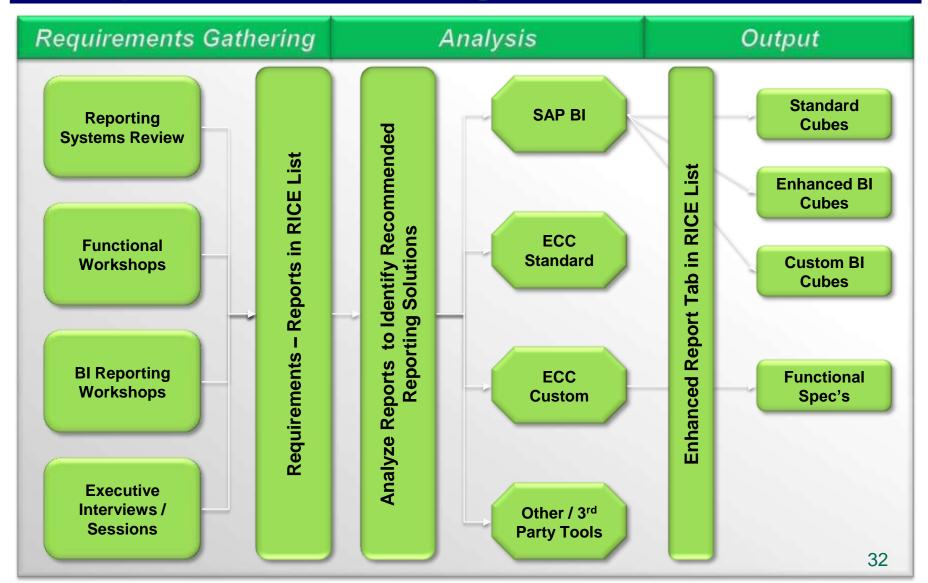
- Concentrate on Management reporting / analysis
- Coldentify Key Performance Indicators (KPI's) to manage the individual business processes

#### 4. Executive Interviews

- Concentrate on dashboard / scorecard
- Collectify Key Performance Indicators (KPIs) to manage the enterprise

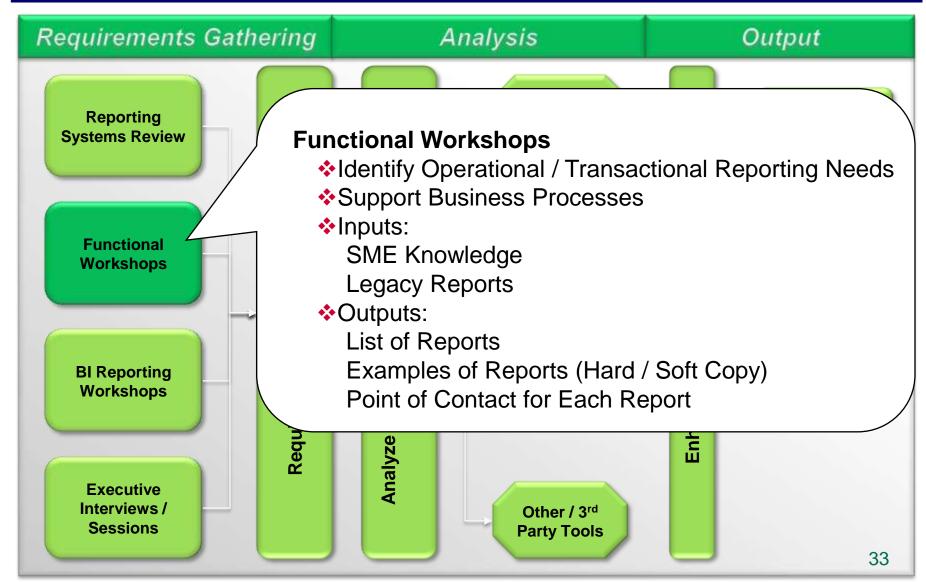


# **BI** Requirements Gathering





# **BI Requirements Gathering**





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# **BI Requirements Gathering**

#### Requirements Gathering Analysis Output Reporting **Systems Review Reporting Specific Blueprint Sessions** Identify Management / Analysis Reports Concentrate on analysis of operations and reporting Identify Analytical Processes **Functional** Workshops Liability Reports ❖Inputs: SME Knowledge Existing analytical systems **BI** Reporting Outputs: Workshops Potential analytical processes KPIs / List of Reports Examples of Reports (Hard / Soft Copy) **Executive** Point of Contact for each report Interviews / **Sessions**



# **BI Requirements Analysis**

# Requirements Analysis will require support effort from the functional team and SMEs

- Identify Data Elements required to meet requirements.
- Breakdown into basic data elements.

#### **Examples:**

'Total Leave Liability Report' can be calculated from 'Total Employee Leave' and 'Total No. of Employees.'

#### 'Total Overtime Reported by Agency'

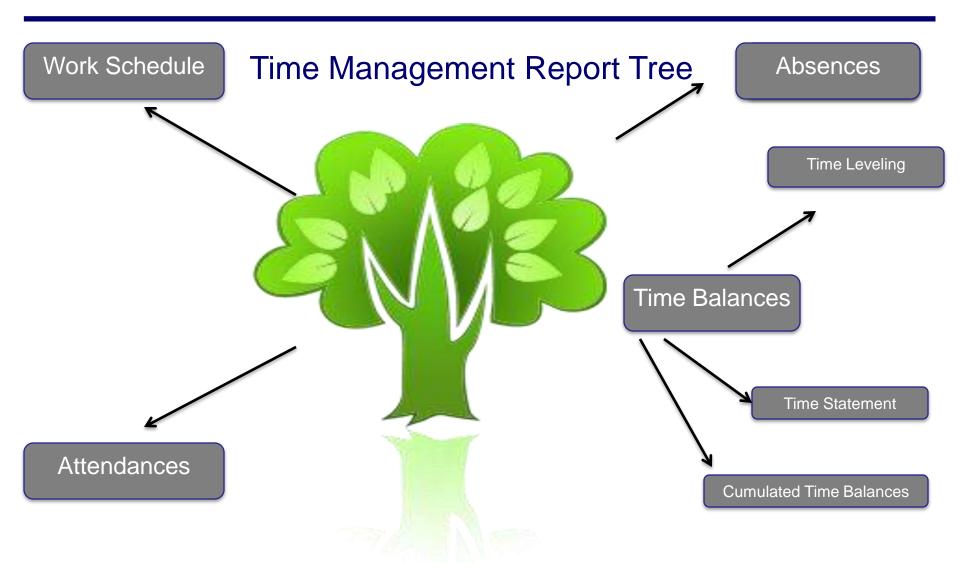
Consolidate and align data elements – provide enterprise wide definition.



# **Time Management Reporting**

## **Reporting Time Evaluation**





## **Time Management Reporting**



The Time Management report tree gives you easy access to the most important reports in Time Management.

#### **Business Example:**

Management wants to find out the amount of overtime worked in your enterprise.

Management wants to analyze productivity statistics over the entire agency, division, or department.



## **Time Management Reporting**





#### Time Statement

 Monthly overview of recorded time data, bonuses, and time accounts.



#### Attendance Check

 Real-time overview of the attendance of groups of employees.



#### **Productivity Rate**

 Quarterly comparison of the times worked with the planned working times.



#### Clock In/Out

 Real-time posting of clock-in and out times, off-site work, and breaks.



## Entitlements Nearing Expiration

 Overview of the absence entitlements due to expire for the assigned employees.



#### **Overtime Rate**

 Quarterly comparison of overtime worked with the planned working times.



## Time Management Reporting

#### **Leave Balance report**

All the Leave Accrual and transaction data is uploaded from the source ECC system to BI Infocubes

- ➤ This Data Source uploads attributes from the infotypes 2006, 2001 and 0416
- ➤A separate infocube for quotas is delivered standard in BI

#### **Attendance/Absence report**

- ➤ The ECC data source for this report will be infotype 2001 and 2002
- >A separate infocube tracks an employee's attendance and absence data

#### Time Wage type report

All different types of Employee hours can be captured in Infocubes in BI and used for further analysis. Example: No. of shift differential hours or Overtime hours within a period, for certain agencies or certain group of agencies or for the whole state

# **Queries for Headcount / Personnel Structure**



#### **Average Length of Service**

This query indicates the length of service of employees in years in relation to the number of employees for the month most recently posted in the current calendar year. Personnel and organizational data are used for evaluations. Also, length of service can be calculated in hours for nonexempt employees.

#### Headcount/Headcount FTE Based on Work Schedule/Employment Percentage

This query indicates the headcount and headcount FTE based on employment percent most recently posted in the current calendar year. Personnel and work schedule is used for evaluations.

#### **Other Reporting Requirements**

Employee Work Schedule Report

Time Statement

Audit Report for Work Schedule Changes

## **Time Reports**



- © Employee Time Report- Specifies an employees work week, daily and weekly work hours and weekly schedule.
- Time Statement- Reports employees regular hours, overtime hours, shift differential, absences, leave balances, leave pool usage, etc.

## **Infotype Audit Log**

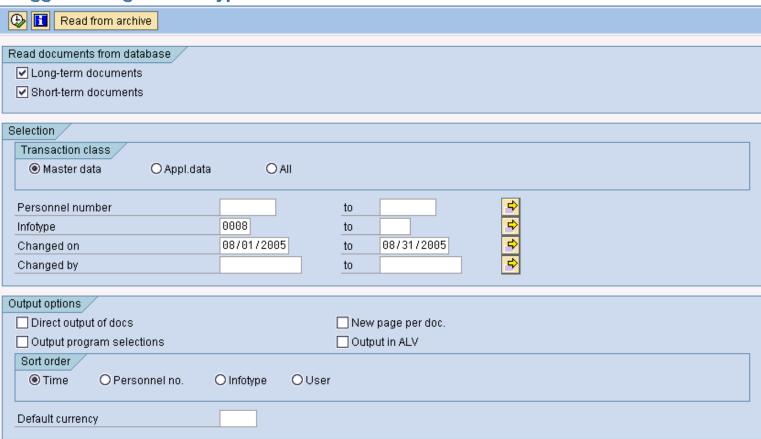


- Will output all changes to desired infotypes for desired period of time
- Will display old value, new value, date of change, and the user that entered the change
- Report can be run based on personnel number, infotype, "changed on" date, and "changed by" person
- Not very flexible for different outputting requirements
  - Cannot sort or filter by wage type



#### **Logged Changes in Infotype Data – Selection Screen**

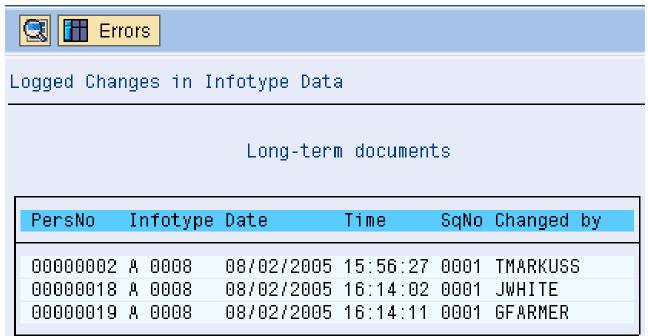
#### **Logged Changes in Infotype Data**





#### **Logged Changes in Infotype Data – Output**

## Logged Changes in Infotype Data



 Double click on employee to see detail



### **Logged Changes in Infotype Data – Output (Detail)**

#### **Logged Changes in Infotype Data**

PersNo 00000002 Hourly Time Infotype A 0008 Basic Pay

Changed by TMARKUSS

Date 08/02/2005 Time 15:56:27 Seq. no. 0001

Subty Obj Lo Field name	ck From Old field	То	No	Old record changed New field	Action
*Amount ->	07/01/2005	06/30/2008	000	2,083.33 (P0001) USD M003	I
*Amount ->	07/01/2008	12/31/9999	000	2,100.00 (P0001) USD M003	I
*Amount ->		12/31/9999 083.33	000	07/19/2005 EHERRON	D



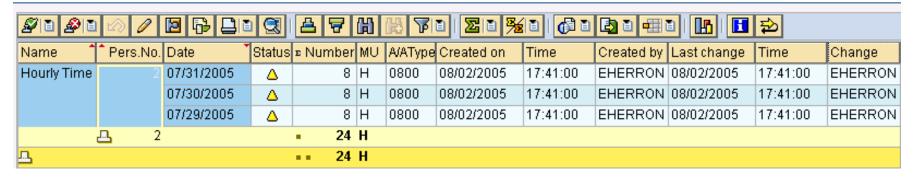
## **Unapproved CATS Time**

- Only time that has been approved by the employees' supervisor will be transferred to Payroll to be paid
- Payroll can run the "Approve Working Times" transaction to view all unapproved time, and approve if necessary
- Payroll can also view time rejected if necessary



## **Unapproved CATS Time – Output**

#### **Approve Working Times**





## **Next Steps**



## **Questions**

## **SCEIS Information**

On the web: <a href="http://www.sceis.sc.gov">http://www.sceis.sc.gov</a>

By email: sammie.chumley@sceis.sc.gov

